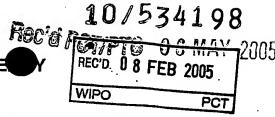




PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 758.1468WOUI	FOR FURTHER ACTION	R ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/US 03/35394	International filing date (day/mo	onthlyear) Priority date (day/monthlyear) 06.11.2002					
International Patent Classification (IPC) or both national classification and IPC B01D27/10							
Applicant DONALDSON COMPANY, INC. et al.							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	of 5 sheets, including this cov	ver sheet.					
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of	These annexes consist of a total of 3 sheets.						
3. This report contains indications re	. This report contains indications relating to the following items:						
I 🖾 Basis of the opinion							
II 🗌 Priority							
III Non-establishment of	opinion with regard to novelty,	, inventive step and industrial applicability					
IV Lack of unity of inventi							
V 🛭 Reasoned statement u citations and explanati	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cite	ed						
VII Certain defects in the i	international application						
VIII Certain observations of	n the international application						
Date of submission of the demand	Date	of completion of this report					
04.06.2004	of all	2.2005					
Name and mailing address of the internation preliminary examining authority:	al Autho	orized Officer					
European Patent Office D-80298 Munich Sembritzki, T							
Tel. +49 89 2399 - 0 Tx: 52369 Fax: +49 89 2399 - 4465	ов ерти а	IDRICKI, 1					

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International application No.

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I.	Bas	is d	of t	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-24	1	as originally filed				
	Clai	ims, Numbers					
1-13			received on 15.11.2004 with letter of 15.11.2004				
	Dra	wings, Sheets					
	1/18	3-18/18	as originally filed				
2.	 With regard to the language, all the elements marked above were available or furnished to this Author language in which the international application was filed, unless otherwise indicated under this item. 						
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, international preliminary examination was carried out on the basis of the sequence listing: 						
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.					
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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5. A This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

see separate sheet

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

 Novelty (N)
 Yes: Claims No: Claims
 2-4,10-12 No: 1,5-9,13

 Inventive step (IS)
 Yes: Claims No: Claims
 1-13

Industrial applicability (IA) Yes: Claims 1-13

No: Claims

2. Citations and explanations

see separate sheet

Reference is made to the following documents:

D1: US-A-6 051 144 (MCPHERSON W ROGER ET AL) 18 April 2000 (2000-04-18)

D2: US-A-5 378 254 (MALY EDWARD C ET AL) 3 January 1995 (1995-01-03)

D3: US-A-4 721 563 (ROSAEN BORJE O) 26 January 1988 (1988-01-26)

· Item V:

1. Novelty and inventive step

- 1.1 Document D1, which is considered to represent the closest prior art, discloses a cartridge filter comprising a filter head and a threadably mountable bowl wherein the filter media extends within the cartridge between an open first end cap and a second closed end cap (see D1, Fig. 1 and 2). The filter is designed for the use with a liquid and comprises sensor means for detecting whether a cartridge is installed or not (see D1, column 4, lines 3-53). D1 further discloses the use of a system comprising a transmitter, a receiver and an optical reflector which reflects a signal, transmitted from a corresponding transmitter on the base back to a suitable receiver on the base (see D1, column 21, lines 3-23). Accordingly, the subject-matter of independent claims 1 and 13 is not novel (Article 33(2) PCT), the same applies to the subject-matter of dependent claims 7, 8 and 9.
- 1.2 The subject-matter of the other dependent claims seems to contain only features which are either known from the prior art and which a skilled person could easily combine without any inventive skill, or which are the result of a normal design procedure followed by a skilled person (Article 33(3) PCT):

The purpose of the flexibility and moveability in dependent claims 3, 4 and 11 is, contrary to the requirements of Article 6 PCT, not clear from the definition of the present claims.

However, a flexible rib for enabling a contact between a filter and a housing in order to provide an electrical signal when a filter is installed is for example known from D2 (see D2, Fig. 6). A spring-loaded contact for the same purpose is for example known from D3 (see D3, Fig. 8). Since these two features have already been employed for the same purpose in a similar device which both disclose optical circuits, it would be obvious to the person skilled in the art, to apply these

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features with well known effect to a filter according to document D1, thereby arriving at the subject-matter of claims 3, 4 and 11.

The specification of the material (claim 2) does not seem to provide any unexpected effect and a radially symmetric or not symmetric reflecting surface (claims 5 and 6) are the only two possibilities.

The use of optic fibers, which is defined in dependent claims 10-12 seem to belong to the daily practice of a skilled person faced with a problem concerning an optical circuit. Thus, the subject-matter of the above claims does not seem to be a able to justify the presence of an inventive step (Article 33(3) PCT).

- 1.3 The independent claims are not formulated in the two-part form according to Rule 6.3(b) PCT. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 1.4 The wording "...is/are incorporated by reference.." (see pages, 1, 2, 6 and 7) should be removed (Rule 9(1iv) PCT).

2. Industrial application

The industrial applicability is obvious.